

NASA TECH BRIEF



NASA Tech Briefs are issued to summarize specific innovations derived from the U.S. space program, to encourage their commercial application. Copies are available to the public at 15 cents each from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Virginia 22151.

Materials Data Handbook, Aluminum Alloy 6061

A comprehensive compilation of technical data on aluminum alloy 6061 (nominal composition: 1.0 Mg, 0.6 Si, 0.25 Cu, 0.25 Cr, remainder Al) has been presented in a handbook prepared by the Department of Chemical Engineering and Metallurgy, Syracuse University Research Institute, under contract to Marshall Space Flight Center.

This "Materials Data Handbook, Aluminum Alloy 6061" includes data on the properties of the alloy at cryogenic, ambient, and elevated temperatures, and other pertinent engineering information required for the design and fabrication of components and equipment utilizing this alloy. The handbook information is arranged in twelve chapters under the following headings:

1. General Information
2. Procurement Information
3. Metallurgy
4. Production Practices
5. Manufacturing Practices
6. Space Environment Effects
7. Static Mechanical Properties

8. Dynamic and Time-Dependent Properties
9. Physical Properties
10. Corrosion Resistance and Protection
11. Surface Treatments
12. Joining Techniques

Note:

Copies of the "Materials Data Handbook, Aluminum Alloy 6061", edited by John Sessler and Volker Weiss, may be obtained from:

Clearinghouse for Federal Scientific
and Technical Information
Springfield, Virginia 22151
Price \$3.00
Reference: TSP-69-10065

Patent status:

No patent action is contemplated by NASA.

Source: John Sessler and Volker Weiss
of Syracuse University Research Institute
under contract to
Marshall Space Flight Center

(MFS-20381)

Category 03